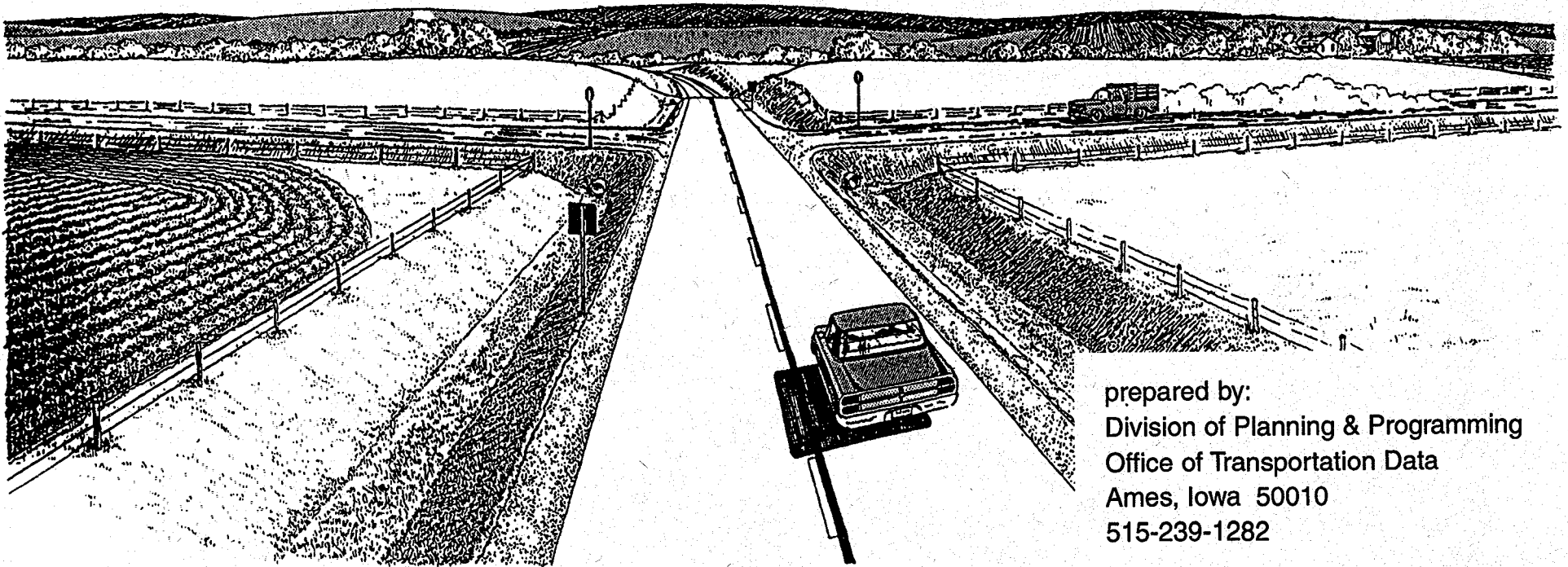


# Iowa Miles of Rural Secondary Roads

as of  
January 1, 2002



prepared by:  
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Iowa Department  
of Transportation

**IOWA**  
**MILES OF RURAL SECONDARY ROADS**  
**AS OF**  
**JANUARY 1, 2002**

Reproduction Cost: \$2.20

## **INTRODUCTION**

The Office of Transportation Data, in cooperation with the Federal Highway Administration, prepares this secondary road report. The report is used by federal, state, and local agencies and the general public for statistical information on the secondary road system.

Information for this report is derived from data reported by Iowa County Engineers. Their reports of construction which may change the road surface, length, and functional classification are reflected in this report.

The report is in four major sections, State Totals in Miles by Type of Surface, Statistical Summary, County Totals in Miles by Type of Surface and Condition of the Rural Secondary System. All data is current as of January 1, 2002.

This report is available at [www.msp.dot.state.ia.us/trans\\_data/secmiles](http://www.msp.dot.state.ia.us/trans_data/secmiles)

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**FIVE YEAR SUMMARY OF THE SECONDARY ROAD SYSTEM IN IOWA  
(IN MILES)**

RURAL SECONDARY ROAD SYSTEM	EARTH ROAD					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
JANUARY 1, 2002											
Total Farm-to-Market	13.054	0.000	27.551	44.371	84.976	13,936.323	873.829	14,760.034	29,570.186	29,655.162	29,642.108
Total Non Farm-to-Market	526.118	258.884	4,414.733	12.141	5,211.876	53,155.726	484.145	1,169.041	54,808.912	60,020.788	59,494.670
Total For State	539.172	258.884	4,442.284	56.512	5,296.852	67,092.049	1,357.974	15,929.075	84,379.098	89,675.950	89,136.778
JANUARY 1, 2001											
Total Farm-to-Market	14.587	0.000	29.390	44.292	88.269	13,976.550	881.970	14,716.433	29,574.953	29,663.222	29,648.635
Total Non Farm-to-Market	523.845	258.257	4,436.382	13.823	5,232.307	53,192.196	473.890	1,136.541	54,802.627	60,034.934	59,511.089
Total For State	538.432	258.257	4,465.772	58.115	5,320.576	67,168.746	1,355.860	15,852.974	84,377.580	89,698.156	89,159.724
JANUARY 1, 2000											
Total Farm-to-Market	12.263	0.000	25.389	38.536	76.188	14,091.430	834.425	14,655.078	29,580.933	29,657.121	29,644.858
Total Non Farm-to-Market	516.215	255.310	4,426.285	12.065	5,209.875	53,307.153	438.152	1,106.717	54,852.022	60,061.897	59,545.682
Total For State	528.478	255.310	4,451.674	50.601	5,286.063	67,398.583	1,272.577	15,761.795	84,432.955	89,719.018	89,190.540
JANUARY 1, 1999											
Total Farm-to-Market	9.880	0.000	26.433	52.284	88.597	14,150.040	837.642	14,582.524	29,570.206	29,658.803	29,648.923
Total Non Farm-to-Market	501.682	258.550	4,449.739	14.435	5,224.406	53,365.214	420.093	1,096.065	54,881.372	60,105.778	59,604.096
Total For State	511.562	258.550	4,476.172	66.719	5,313.003	67,515.254	1,257.735	15,678.589	84,451.578	89,764.581	89,253.019
JANUARY 1, 1998											
Total Farm-to-Market	14.696	0.000	26.782	56.161	97.639	14,197.382	841.748	14,542.811	29,581.941	29,679.580	29,664.884
Total Non Farm-to-Market	493.308	264.317	4,469.301	16.423	5,243.349	53,405.795	422.666	1,056.537	54,884.998	60,128.347	59,635.039
Total For State	508.004	264.317	4,496.083	72.584	5,340.988	67,603.177	1,264.414	15,599.348	84,466.939	89,807.927	89,299.923

## STATISTICAL SUMMARY

On January 1, 2002, the condition of the Secondary Road System was as follows:

	<b>Farm-to-Market System</b>	<b>Area Service Secondary System</b>
Miles of Unimproved Earth Roads	0.000	258.884
Graded and Drained Earth Roads	27.551	4,414.733
Soil Surfaced	44.371	12.141
Gravel or Stone Surfaced	13,936.323	53,155.726
Bituminous Surfaced, Not Paved	873.829	484.145
Paved	14,760.034	1,169.041
Total Miles of Open Road	29,642.108	59,494.670
Legal Roads Not Open to Traffic	13.054	526.118
Total Miles in System	29,655.162	60,020.788

Comparison of grading and surfacing of Farm-to-Market and Area Service Secondary Roads accomplished in the past five years is as follows:

<b>Year</b>	<b>Miles Graded</b>	<b>Miles Loose Surfaced</b>
Jan. 1, 1998	69.515	67.480
Jan. 1, 1999	49.401	66.764
Jan. 1, 2000	68.952	84.276
Jan. 1, 2001	45.813	59.368
Jan. 1, 2002	48.983	52.365

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair							0.000
Adams							0.000
Allamakee	0.568		0.568				1.136
Appanoose					11.474		11.474
Audubon					0.311		0.311
Benton					14.558		14.558
Black Hawk							0.000
Boone	1.809		1.809			8.591	12.209
Bremer					9.029		9.029
Buchanan							0.000
Buena Vista				2.885			2.885
Butler					14.557		14.557
Calhoun							0.000
Carroll						0.224	0.224
Cass							0.000
Cedar					3.300		3.300
Cerro Gordo							0.000
Cherokee					7.036		7.036
Chickasaw							0.000
Clarke	1.404		1.404				2.808

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay					0.087	4.711	4.798
Clayton					8.196		8.196
Clinton							0.000
Crawford							0.000
Dallas					0.497		0.497
Davis					8.601		8.601
Decatur							0.000
Delaware						5.080	5.080
Des Moines					0.086	1.390	1.476
Dickinson					0.240		0.240
Dubuque	3.294		3.294		9.925		16.513
Emmet					13.675		13.675
Fayette					11.844		11.844
Floyd					10.300		10.300
Franklin					12.568		12.568
Fremont				2.542	5.970		8.512
Greene							0.000
Grundy					6.489		6.489
Guthrie							0.000
Hamilton							0.000



**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock					0.112		0.112
Hardin					0.522		0.522
Harrison						4.354	4.354
Henry					9.576	0.503	10.079
Howard					12.254		12.254
Humboldt							0.000
Ida							0.000
Iowa					8.154		8.154
Jackson						5.090	5.090
Jasper	6.623		6.623		3.131		16.377
Jefferson				3.667			3.667
Johnson					1.032		1.032
Jones						0.048	0.048
Keokuk							0.000
Kossuth					31.144		31.144
Lee	2.075		2.075			3.642	7.792
Linn							0.000
Louisa						7.534	7.534
Lucas					8.117		8.117
Lyon							0.000

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison				3.525	4.902		8.427
Mahaska	3.045		3.045				6.090
Marion						4.196	4.196
Marshall					5.347		5.347
Mills							0.000
Mitchell					6.038		6.038
Monona							0.000
Monroe							0.000
Montgomery					0.057	2.130	2.187
Muscatine						0.164	0.164
O'Brien							0.000
Osceola							0.000
Page							0.000
Palo Alto							0.000
Plymouth	6.066		6.066				12.132
Pocahontas							0.000
Polk				16.406	16.368	0.090	32.864
Pottawattamie					1.920	7.027	8.947
Poweshiek							0.000
Ringgold							0.000

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE FARM-TO-MARKET SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac							0.000
Scott					8.739		8.739
Shelby							0.000
Sioux					15.544		15.544
Story						2.412	2.412
Tama							0.000
Taylor							0.000
Union							0.000
Van Buren					4.605		4.605
Wapello							0.000
Warren	1.082		1.082			3.266	5.430
Washington							0.000
Wayne							0.000
Webster					7.914		7.914
Winnebago							0.000
Winneshiek	4.789		4.789		1.415		10.993
Woodbury					14.338		14.338
Worth							0.000
Wright							0.000
TOTAL	30.755	0.000	30.755	29.025	309.972	60.452	460.959

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Adair							0.000
Adams							0.000
Allamakee							0.000
Appanoose					0.053		0.053
Audubon							0.000
Benton							0.000
Black Hawk							0.000
Boone	3.015		3.015				6.030
Bremer							0.000
Buchanan							0.000
Buena Vista						0.008	0.008
Butler							0.000
Calhoun							0.000
Carroll						0.343	0.343
Cass							0.000
Cedar					3.947		3.947
Cerro Gordo							0.000
Cherokee							0.000
Chickasaw							0.000
Clarke			1.240				1.240

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Clay						2.626	2.626
Clayton				1.040			1.040
Clinton							0.000
Crawford							0.000
Dallas					0.230	0.160	0.390
Davis			0.852				0.852
Decatur							0.000
Delaware					0.793	3.614	4.407
Des Moines						0.047	0.047
Dickinson	3.730		3.730	0.760		0.249	8.469
Dubuque	1.019		1.019	5.742			7.780
Emmet	1.560		1.560		0.249		3.369
Fayette	0.076		0.076				0.152
Floyd							0.000
Franklin							0.000
Fremont							0.000
Greene							0.000
Grundy							0.000
Guthrie							0.000
Hamilton							0.000

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Hancock					2.114		2.114
Hardin	0.095		0.095				0.190
Harrison							0.000
Henry	1.263		1.263			1.250	3.776
Howard							0.000
Humboldt							0.000
Ida	0.248		0.248			0.258	0.754
Iowa							0.000
Jackson			0.242				0.242
Jasper							0.000
Jefferson				0.796	1.653		2.449
Johnson							0.000
Jones				0.824		0.244	1.068
Keokuk							0.000
Kossuth						0.272	0.272
Lee				2.341			2.341
Linn					1.445		1.445
Louisa							0.000
Lucas							0.000
Lyon							0.000

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Madison	0.260						0.260
Mahaska							0.000
Marion							0.000
Marshall					1.778		1.778
Mills							0.000
Mitchell					3.367		3.367
Monona						0.037	0.037
Monroe							0.000
Montgomery							0.000
Muscatine	0.073		0.073				0.146
O'Brien							0.000
Osceola			0.982				0.982
Page			0.326				0.326
Palo Alto							0.000
Plymouth							0.000
Pocahontas							0.000
Polk				2.647	2.070		4.717
Pottawattamie	0.497		0.497			0.303	1.297
Poweshiek							0.000
Ringgold							0.000

**RURAL SECONDARY ROAD  
GRADING AND SURFACING WORK ACCOMPLISHED ON THE AREA SERVICE SECONDARY SYSTEM**

COUNTY	GRADED AND DRAINED EARTH	SOIL SURFACE	GRAVEL OR STONE	BITUMINOUS SURFACE	ASPHALT PAVEMENT	PORTLAND CEMENT CONCRETE PAVEMENT	TOTAL
Sac							0.000
Scott					4.532		4.532
Shelby							0.000
Sioux	3.511		3.511		0.964		7.986
Story							0.000
Tama							0.000
Taylor							0.000
Union							0.000
Van Buren							0.000
Wapello					1.291		1.291
Warren	2.881		2.881	0.323		1.975	8.060
Washington							0.000
Wayne							0.000
Webster					3.163		3.163
Winnebago							0.000
Winneshiek							0.000
Woodbury							0.000
Worth							0.000
Wright							0.000
TOTAL	18.228	0.000	21.610	14.473	27.649	11.386	93.346



**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	0.000	276.985	276.985	143.877	603.863	747.740
Adams	0.000	188.723	188.723	103.272	424.270	527.542
Allamakee	0.000	299.755	299.755	15.412	549.007	564.419
Appanoose	1.087	269.576	270.663	33.896	426.698	460.594
Audubon	0.000	272.389	272.389	36.814	451.963	488.777
Benton	3.449	353.706	357.155	90.769	759.168	849.937
Black Hawk	0.000	272.998	272.998	5.078	490.192	495.270
Boone	0.000	301.368	301.368	1.883	665.870	667.753
Bremer	0.000	190.396	190.396	4.232	516.831	521.063
Buchanan	0.000	331.143	331.143	24.773	574.880	599.653
Buena Vista	0.000	328.995	328.995	6.457	663.952	670.409
Butler	0.000	290.629	290.629	16.659	645.385	662.044
Calhoun	0.000	298.551	298.551	6.334	673.305	679.639
Carroll	0.000	350.581	350.581	14.956	620.897	635.853
Cass	0.000	257.316	257.316	139.807	501.562	641.369
Cedar	1.765	354.698	356.463	54.891	537.153	592.044
Cerro Gordo	0.000	317.793	317.793	9.358	615.778	625.136
Cherokee	0.000	304.487	304.487	23.226	666.812	690.038
Chickasaw	1.013	232.813	233.826	8.617	594.618	603.235
Clarke	0.000	246.595	246.595	69.745	341.329	411.074

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA**  
**CLASSIFIED BY SYSTEM**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	0.000	301.626	301.626	5.248	654.797	660.045
Clayton	0.000	402.348	402.348	24.806	635.150	659.956
Clinton	0.000	349.118	349.118	3.904	646.357	650.261
Crawford	3.583	374.907	378.490	184.590	651.520	836.110
Dallas	0.000	250.969	250.969	2.672	618.518	621.190
Davis	0.000	265.762	265.762	67.005	467.573	534.578
Decatur	0.000	304.015	304.015	81.449	368.823	450.272
Delaware	0.000	292.467	292.467	11.797	606.319	618.116
Des Moines	0.000	235.001	235.001	65.827	311.289	377.116
Dickinson	0.000	220.779	220.779	20.592	411.254	431.846
Dubuque	0.000	312.980	312.980	5.204	446.508	451.712
Emmet	0.000	178.302	178.302	4.885	460.839	465.724
Fayette	0.000	344.553	344.553	0.342	784.442	784.784
Floyd	0.000	247.140	247.140	2.022	627.342	629.364
Franklin	0.000	354.140	354.140	13.349	625.447	638.796
Fremont	0.000	253.263	253.263	131.317	361.468	492.785
Greene	0.000	315.494	315.494	4.917	636.361	641.278
Grundy	0.000	271.157	271.157	14.354	534.001	548.355
Guthrie	0.000	288.181	288.181	69.501	570.767	640.268
Hamilton	0.000	315.900	315.900	1.755	588.898	590.653

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA**  
**CLASSIFIED BY SYSTEM**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	0.000	313.399	313.399	6.556	692.199	698.755
Hardin	0.000	369.220	369.220	5.209	597.992	603.201
Harrison	0.417	346.382	346.799	148.296	589.407	737.703
Henry	0.000	269.771	269.771	67.815	399.191	467.006
Howard	0.000	242.394	242.394	1.730	509.262	510.992
Humboldt	0.000	200.261	200.261	0.659	512.462	513.121
Ida	0.000	224.298	224.298	50.222	450.454	500.676
Iowa	0.392	355.090	355.482	76.304	498.016	574.320
Jackson	1.417	326.288	327.705	37.447	461.507	498.954
Jasper	0.000	405.145	405.145	49.181	765.724	814.905
Jefferson	1.896	281.269	283.165	97.062	369.100	466.162
Johnson	0.000	307.286	307.286	42.848	556.537	599.385
Jones	1.660	310.968	312.628	27.411	499.460	526.871
Keokuk	0.000	319.206	319.206	100.659	502.762	603.421
Kossuth	0.000	475.661	475.661	36.379	1,142.402	1,178.781
Lee	0.000	276.375	276.375	12.209	410.472	422.681
Linn	0.000	335.769	335.769	18.952	787.613	806.565
Louisa	0.000	239.300	239.300	38.743	290.596	329.339
Lucas	0.000	211.438	211.438	90.005	324.056	414.061
Lyon	0.000	320.822	320.822	3.697	678.025	681.722

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	0.000	321.715	321.715	46.874	535.630	582.504
Mahaska	0.000	298.012	298.012	36.191	622.318	658.509
Marion	0.000	302.441	302.441	45.418	508.084	553.502
Marshall	0.000	309.832	309.832	21.550	598.516	620.066
Mills	0.000	223.112	223.112	75.459	355.108	430.567
Mitchell	0.000	239.232	239.232	5.757	536.961	542.718
Monona	0.000	352.131	352.131	94.803	613.456	708.259
Monroe	0.000	275.683	275.683	44.328	278.350	322.678
Montgomery	0.000	224.022	224.022	108.465	385.753	494.218
Muscatine	0.361	217.967	218.328	18.809	368.529	387.338
O'Brien	0.000	312.497	312.497	60.697	640.590	701.287
Osceola	0.000	243.300	243.300	48.817	429.121	477.938
Page	0.000	320.620	320.620	158.787	436.662	595.449
Palo Alto	0.000	302.608	302.608	0.370	636.183	636.553
Plymouth	0.000	347.378	347.378	43.680	1,032.774	1,076.454
Pocahontas	0.000	299.518	299.518	18.747	680.294	699.041
Polk	0.000	341.849	341.849	1.498	407.259	408.757
Pottawattamie	0.000	542.233	542.233	86.209	793.550	879.759
Poweshiek	3.910	324.360	328.270	117.251	524.938	642.189
Ringgold	0.000	272.325	272.325	207.419	391.934	599.353

**MILES OF ALL OPEN RURAL SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			AREA SERVICE SECONDARY SYSTEM		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	0.000	327.931	327.931	23.220	667.978	691.198
Scott	0.870	203.575	204.445	11.653	327.131	338.784
Shelby	42.484	250.696	293.180	154.341	503.656	657.997
Sioux	0.951	424.012	424.963	48.452	881.297	929.749
Story	0.000	359.913	359.913	25.747	553.780	579.527
Tama	0.938	353.665	354.603	82.716	711.129	793.845
Taylor	4.716	320.227	324.943	157.422	418.714	576.136
Union	0.000	246.753	246.753	104.691	348.567	453.258
Van Buren	0.000	257.871	257.871	49.926	419.813	469.739
Wapello	0.000	274.136	274.136	36.769	381.776	418.545
Warren	0.000	312.689	312.689	75.901	487.055	562.956
Washington	0.000	351.362	351.362	88.455	452.939	541.394
Wayne	1.013	296.414	297.427	63.274	464.130	527.404
Webster	0.000	392.773	392.773	3.903	770.235	774.138
Winnebago	0.000	201.270	201.270	4.631	512.354	516.985
Winneshiek	0.000	345.662	345.662	4.119	693.097	697.216
Woodbury	0.000	367.430	367.430	68.107	888.597	956.704
Worth	0.000	235.482	235.482	2.201	448.844	451.045
Wright	0.000	229.549	229.549	2.125	733.367	735.492
<b>TOTAL</b>	<b>71.922</b>	<b>29,570.186</b>	<b>29,642.108</b>	<b>4,685.758</b>	<b>54,808.912</b>	<b>59,494.670</b>

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Adair	74.395	276.985	747.740	1,024.725	1,099.120
Adams	46.289	188.723	527.542	716.265	762.554
Allamakee	89.672	299.755	564.419	864.174	953.846
Appanoose	71.857	270.663	460.594	731.257	803.114
Audubon	43.140	272.389	488.777	761.166	804.306
Benton	133.732	357.155	849.937	1,207.092	1,340.824
Black Hawk	93.993	272.998	495.270	768.268	862.261
Boone	87.583	301.368	667.753	969.121	1,056.704
Bremer	83.546	190.396	521.063	711.459	795.005
Buchanan	108.021	331.143	599.653	930.796	1,038.817
Buena Vista	90.503	328.995	670.409	999.404	1,089.907
Butler	73.360	290.629	662.044	952.673	1,026.033
Calhoun	79.541	298.551	679.639	978.190	1,057.731
Carroll	74.108	350.581	635.853	986.434	1,060.542
Cass	141.457	257.316	641.369	898.685	1,040.142
Cedar	88.147	356.463	592.044	948.507	1,036.654
Cerro Gordo	94.696	317.793	625.136	942.929	1,037.625
Cherokee	68.196	304.487	690.038	994.525	1,062.721
Chickasaw	66.468	233.826	603.235	837.061	903.529
Clarke	60.971	246.595	411.074	657.669	718.640

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Clay	58.672	301.626	660.045	961.671	1,020.343
Clayton	105.101	402.348	659.956	1,062.304	1,167.405
Clinton	107.278	349.118	650.261	999.379	1,106.657
Crawford	96.681	378.490	836.110	1,214.600	1,311.281
Dallas	118.821	250.969	621.190	872.159	990.980
Davis	57.489	265.762	534.578	800.340	857.829
Decatur	91.536	304.015	450.272	754.287	845.823
Delaware	93.463	292.467	618.116	910.583	1,004.046
Des Moines	57.196	235.001	377.116	612.117	669.313
Dickinson	49.432	220.779	431.846	652.625	702.057
Dubuque	112.902	312.980	451.712	764.692	877.594
Emmet	53.009	178.302	465.724	644.026	697.035
Fayette	125.752	344.553	784.784	1,129.337	1,255.089
Floyd	65.049	247.140	629.364	876.504	941.553
Franklin	78.682	354.140	638.796	992.936	1,071.618
Fremont	121.676	253.263	492.785	746.048	867.724
Greene	76.084	315.494	641.278	956.772	1,032.856
Grundy	81.424	271.157	548.355	819.512	900.936
Guthrie	95.862	288.181	640.268	928.449	1,024.311
Hamilton	149.712	315.900	590.653	906.553	1,056.265

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Hancock	56.781	313.399	698.755	1,012.154	1,068.935
Hardin	92.066	369.220	603.201	972.421	1,064.487
Harrison	124.452	346.799	737.703	1,084.502	1,208.954
Henry	69.642	269.771	467.006	736.777	806.419
Howard	42.701	242.394	510.992	753.386	796.087
Humboldt	38.912	200.261	513.121	713.382	752.294
Ida	60.237	224.298	500.676	724.974	785.211
Iowa	104.464	355.482	574.320	929.802	1,034.266
Jackson	112.855	327.705	498.954	826.659	939.514
Jasper	130.320	405.145	814.905	1,220.050	1,350.370
Jefferson	41.911	283.165	466.162	749.327	791.238
Johnson	123.622	307.286	599.385	906.671	1,030.293
Jones	100.473	312.628	526.871	839.499	939.972
Keokuk	114.237	319.206	603.421	922.627	1,036.864
Kossuth	109.584	475.661	1,178.781	1,654.442	1,764.026
Lee	122.118	276.375	422.681	699.056	821.174
Linn	105.147	335.769	806.565	1,142.334	1,247.481
Louisa	58.928	239.300	329.339	568.639	627.567
Lucas	62.183	211.438	414.061	625.499	687.682
Lyon	69.206	320.822	681.722	1,002.544	1,071.750



**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Madison	52.601	321.715	582.504	904.219	956.820
Mahaska	94.031	298.012	658.509	956.521	1,050.552
Marion	95.562	302.441	553.502	855.943	951.505
Marshall	84.308	309.832	620.066	929.898	1,014.206
Mills	102.833	223.112	430.567	653.679	756.512
Mitchell	50.690	239.232	542.718	781.950	832.640
Monona	108.527	352.131	708.259	1,060.390	1,168.917
Monroe	53.754	275.683	322.678	598.361	652.115
Montgomery	62.734	224.022	494.218	718.240	780.974
Muscatine	91.122	218.328	387.338	605.666	696.788
O'Brien	77.105	312.497	701.287	1,013.784	1,090.889
Osceola	58.888	243.300	477.938	721.238	780.126
Page	66.587	320.620	595.449	916.069	982.656
Palo Alto	51.181	302.608	636.553	939.161	990.342
Plymouth	110.882	347.378	1,076.454	1,423.832	1,534.714
Pocahontas	90.471	299.518	699.041	998.559	1,089.030
Polk	141.290	341.849	408.757	750.606	891.896
Pottawattamie	251.236	542.233	879.759	1,421.992	1,673.228
Poweshiek	124.275	328.270	642.189	970.459	1,094.734
Ringgold	71.064	272.325	599.353	871.678	942.742

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA  
CLASSIFIED BY SYSTEM**

COUNTY	PRIMARY SYSTEM	SECONDARY SYSTEM			TOTAL OPEN ROADS ALL SYSTEMS
		FARM TO MARKET	AREA SERVICE SECONDARY	TOTAL FOR SECONDARY SYSTEM	
Sac	88.186	327.931	691.198	1,019.129	1,107.315
Scott	72.124	204.445	338.784	543.229	615.353
Shelby	76.727	293.180	657.997	951.177	1,027.904
Sioux	106.442	424.963	929.749	1,354.712	1,461.154
Story	118.425	359.913	579.527	939.440	1,057.865
Tama	87.551	354.603	793.845	1,148.448	1,235.999
Taylor	68.967	324.943	576.136	901.079	970.046
Union	53.733	246.753	453.258	700.011	753.744
Van Buren	72.100	257.871	469.739	727.610	799.710
Wapello	55.510	274.136	418.545	692.681	748.191
Warren	125.648	312.689	562.956	875.645	1,001.293
Washington	115.484	351.362	541.394	892.756	1,008.240
Wayne	58.683	297.427	527.404	824.831	883.514
Webster	100.820	392.773	774.138	1,166.911	1,267.731
Winnebago	40.273	201.270	516.985	718.255	758.528
Winneshiek	93.150	345.662	697.216	1,042.878	1,136.028
Woodbury	138.178	367.430	956.704	1,324.134	1,462.312
Worth	57.869	235.482	451.045	686.527	744.396
Wright	72.143	229.549	735.492	965.041	1,037.184
TOTAL	8,646.489	29,642.108	59,494.670	89,136.778	97,783.267

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA**  
**(SHOWING SURFACED AND NOT SURFACED)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS		NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Adair	143.877	880.848	1,024.725	74.395	143.877	955.243	1,099.120
Adams	103.272	612.993	716.265	46.289	103.272	659.282	762.554
Allamakee	15.412	848.762	864.174	89.672	15.412	938.434	953.846
Appanoose	34.983	696.274	731.257	71.857	34.983	768.131	803.114
Audubon	36.814	724.352	761.166	43.140	36.814	767.492	804.306
Benton	94.218	1,112.874	1,207.092	133.732	94.218	1,246.606	1,340.824
Black Hawk	5.078	763.190	768.268	93.993	5.078	857.183	862.261
Boone	1.883	967.238	969.121	87.583	1.883	1,054.821	1,056.704
Bremer	4.232	707.227	711.459	83.546	4.232	790.773	795.005
Buchanan	24.773	906.023	930.796	108.021	24.773	1,014.044	1,038.817
Buena Vista	6.457	992.947	999.404	90.503	6.457	1,083.450	1,089.907
Butler	16.659	936.014	952.673	73.360	16.659	1,009.374	1,026.033
Calhoun	6.334	971.856	978.190	79.541	6.334	1,051.397	1,057.731
Carroll	14.956	971.478	986.434	74.108	14.956	1,045.586	1,060.542
Cass	139.807	758.878	898.685	141.457	139.807	900.335	1,040.142
Cedar	56.656	891.851	948.507	88.147	56.656	979.998	1,036.654
Cerro Gordo	9.358	933.571	942.929	94.696	9.358	1,028.267	1,037.625
Cherokee	23.226	971.299	994.525	68.196	23.226	1,039.495	1,062.721
Chickasaw	9.630	827.431	837.061	66.468	9.630	893.899	903.529
Clarke	69.745	587.924	657.669	60.971	69.745	648.895	718.640

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA**  
**(SHOWING SURFACED AND NOT SURFACED)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Clay	5.248	956.423	961.671	58.672	5.248	1,015.095	1,020.343
Clayton	24.806	1,037.498	1,062.304	105.101	24.806	1,142.599	1,167.405
Clinton	3.904	995.475	999.379	107.278	3.904	1,102.753	1,106.657
Crawford	188.173	1,026.427	1,214.600	96.681	188.173	1,123.108	1,311.281
Dallas	2.672	869.487	872.159	118.821	2.672	988.308	990.980
Davis	67.005	733.335	800.340	57.489	67.005	790.824	857.829
Decatur	81.449	672.838	754.287	91.536	81.449	764.374	845.823
Delaware	11.797	898.786	910.583	93.463	11.797	992.249	1,004.046
Des Moines	65.827	546.290	612.117	57.196	65.827	603.486	669.313
Dickinson	20.592	632.033	652.625	49.432	20.592	681.465	702.057
Dubuque	5.204	759.488	764.692	112.902	5.204	872.390	877.594
Emmet	4.885	639.141	644.026	53.009	4.885	692.150	697.035
Fayette	0.342	1,128.995	1,129.337	125.752	0.342	1,254.747	1,255.089
Floyd	2.022	874.482	876.504	65.049	2.022	939.531	941.553
Franklin	13.349	979.587	992.936	78.682	13.349	1,058.269	1,071.618
Fremont	131.317	614.731	746.048	121.676	131.317	736.407	867.724
Greene	4.917	951.855	956.772	76.084	4.917	1,027.939	1,032.856
Grundy	14.354	805.158	819.512	81.424	14.354	886.582	900.936
Guthrie	69.501	858.948	928.449	95.862	69.501	954.810	1,024.311
Hamilton	1.755	904.798	906.553	149.712	1.755	1,054.510	1,056.265

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA**  
**(SHOWING SURFACED AND NOT SURFACED)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Hancock	6.556	1,005.598	1,012.154	56.781	6.556	1,062.379	1,068.935
Hardin	5.209	967.212	972.421	92.066	5.209	1,059.278	1,064.487
Harrison	148.713	935.789	1,084.502	124.452	148.713	1,060.241	1,208.954
Henry	67.815	668.962	736.777	69.642	67.815	738.604	806.419
Howard	1.730	751.656	753.386	42.701	1.730	794.357	796.087
Humboldt	0.659	712.723	713.382	38.912	0.659	751.635	752.294
Ida	50.222	674.752	724.974	60.237	50.222	734.989	785.211
Iowa	76.696	853.106	929.802	104.464	76.696	957.570	1,034.266
Jackson	38.864	787.795	826.659	112.855	38.864	900.650	939.514
Jasper	49.181	1,170.869	1,220.050	130.320	49.181	1,301.189	1,350.370
Jefferson	98.958	650.369	749.327	41.911	98.958	692.280	791.238
Johnson	42.848	863.823	906.671	123.622	42.848	987.445	1,030.293
Jones	29.071	810.428	839.499	100.473	29.071	910.901	939.972
Keokuk	100.659	821.968	922.627	114.237	100.659	936.205	1,036.864
Kossuth	36.379	1,618.063	1,654.442	109.584	36.379	1,727.647	1,764.026
Lee	12.209	686.847	699.056	122.118	12.209	808.965	821.174
Linn	18.952	1,123.382	1,142.334	105.147	18.952	1,228.529	1,247.481
Louisa	38.743	529.896	568.639	58.928	38.743	588.824	627.567
Lucas	90.005	535.494	625.499	62.183	90.005	597.677	687.682
Lyon	3.697	998.847	1,002.544	69.206	3.697	1,068.053	1,071.750

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA**  
**(SHOWING SURFACED AND NOT SURFACED)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS	ALL SURFACED ROADS	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Madison	46.874	857.345	904.219	52.601	46.874	909.946	956.820
Mahaska	36.191	920.330	956.521	94.031	36.191	1,014.361	1,050.552
Marion	45.418	810.525	855.943	95.562	45.418	906.087	951.505
Marshall	21.550	908.348	929.898	84.308	21.550	992.656	1,014.206
Mills	75.459	578.220	653.679	102.833	75.459	681.053	756.512
Mitchell	5.757	776.193	781.950	50.690	5.757	826.883	832.640
Monona	94.803	965.587	1,060.390	108.527	94.803	1,074.114	1,168.917
Monroe	44.328	554.033	598.361	53.754	44.328	607.787	652.115
Montgomery	108.465	609.775	718.240	62.734	108.465	672.509	780.974
Muscatine	19.170	586.496	605.666	91.122	19.170	677.618	696.788
O'Brien	60.697	953.087	1,013.784	77.105	60.697	1,030.192	1,090.889
Osceola	48.817	672.421	721.238	58.888	48.817	731.309	780.126
Page	158.787	757.282	916.069	66.587	158.787	823.869	982.656
Palo Alto	0.370	938.791	939.161	51.181	0.370	989.972	990.342
Plymouth	43.680	1,380.152	1,423.832	110.882	43.680	1,491.034	1,534.714
Pocahontas	18.747	979.812	998.559	90.471	18.747	1,070.283	1,089.030
Polk	1.498	749.108	750.606	141.290	1.498	890.398	891.896
Pottawattamie	86.209	1,335.783	1,421.992	251.236	86.209	1,587.019	1,673.228
Poweshiek	121.161	849.298	970.459	124.275	121.161	973.573	1,094.734
Ringgold	207.419	664.259	871.678	71.064	207.419	735.323	942.742

**MILES OF RURAL PRIMARY ROADS AND SECONDARY ROADS IN IOWA**

**(SHOWING SURFACED AND NOT SURFACED)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL OPEN SECONDARY SYSTEM			RURAL PRIMARY	TOTAL OPEN ALL RURAL SYSTEMS		
	NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS		NOT SURFACED ROADS	SURFACED ROADS	TOTAL ROADS
Sac	23.220	995.909	1,019.129	88.186	23.220	1,084.095	1,107.315
Scott	12.523	530.706	543.229	72.124	12.523	602.830	615.353
Shelby	196.825	754.352	951.177	76.727	196.825	831.079	1,027.904
Sioux	49.403	1,305.309	1,354.712	106.442	49.403	1,411.751	1,461.154
Story	25.747	913.693	939.440	118.425	25.747	1,032.118	1,057.865
Tama	83.654	1,064.794	1,148.448	87.551	83.654	1,152.345	1,235.999
Taylor	162.138	738.941	901.079	68.967	162.138	807.908	970.046
Union	104.691	595.320	700.011	53.733	104.691	649.053	753.744
Van Buren	49.926	677.684	727.610	72.100	49.926	749.784	799.710
Wapello	36.769	655.912	692.681	55.510	36.769	711.422	748.191
Warren	75.901	799.744	875.645	125.648	75.901	925.392	1,001.293
Washington	88.455	804.301	892.756	115.484	88.455	919.785	1,008.240
Wayne	64.287	760.544	824.831	58.683	64.287	819.227	883.514
Webster	3.903	1,163.008	1,166.911	100.820	3.903	1,263.828	1,267.731
Winnebago	4.631	713.624	718.255	40.273	4.631	753.897	758.528
Winneshiek	4.119	1,038.759	1,042.878	93.150	4.119	1,131.909	1,136.028
Woodbury	68.107	1,256.027	1,324.134	138.178	68.107	1,394.205	1,462.312
Worth	2.201	684.326	686.527	57.869	2.201	742.195	744.396
Wright	2.125	962.916	965.041	72.143	2.125	1,035.059	1,037.184
TOTAL	4,757.680	84,379.098	89,136.778	8,646.489	4,757.680	93,025.587	97,783.267

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	2.065	1.541	142.336	0.000	145.942	794.603	8.129	78.116	880.848	1,026.790	1,024.725
Adams	0.921	0.000	103.272	0.000	104.193	515.765	0.112	97.116	612.993	717.186	716.265
Allamakee	11.063	13.175	2.237	0.000	26.475	700.438	1.155	147.169	848.762	875.237	864.174
Appanoose	11.873	0.222	34.761	0.000	46.856	606.291	1.324	88.659	696.274	743.130	731.257
Audubon	1.811	0.640	36.174	0.000	38.625	632.936	4.679	86.737	724.352	762.977	761.166
Benton	3.682	0.000	94.218	0.000	97.900	925.154	5.882	181.838	1,112.874	1,210.774	1,207.092
Black Hawk	1.206	0.721	4.357	0.000	6.284	526.408	26.078	210.704	763.190	769.474	768.268
Boone	4.569	0.000	0.870	1.013	6.452	781.782	2.572	182.884	967.238	973.690	969.121
Bremer	0.746	2.343	1.889	0.000	4.978	572.381	1.580	133.266	707.227	712.205	711.459
Buchanan	0.865	1.022	23.751	0.000	25.638	744.015	1.168	160.840	906.023	931.661	930.796
Buena Vista	3.981	3.707	2.750	0.000	10.438	747.476	4.371	241.100	992.947	1,003.385	999.404
Butler	5.638	0.000	16.659	0.000	22.297	736.350	0.497	199.167	936.014	958.311	952.673
Calhoun	0.000	1.501	4.833	0.000	6.334	810.991	2.328	158.537	971.856	978.190	978.190
Carroll	2.958	2.399	12.557	0.000	17.914	799.960	0.466	171.052	971.478	989.392	986.434
Cass	1.533	1.373	138.434	0.000	141.340	653.428	8.120	97.330	758.878	900.218	898.685
Cedar	3.754	0.920	55.736	0.000	60.410	755.421	3.369	133.061	891.851	952.261	948.507
Cerro Gordo	3.345	4.230	5.128	0.000	12.703	698.813	3.643	231.115	933.571	946.274	942.929
Cherokee	5.849	1.412	21.814	0.000	29.075	769.150	0.000	202.149	971.299	1,000.374	994.525
Chickasaw	2.018	4.701	4.929	0.000	11.648	692.941	0.559	133.931	827.431	839.079	837.061
Clarke	3.473	0.062	69.683	0.000	73.218	533.672	5.034	49.218	587.924	661.142	657.669



**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)  
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COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay	0.000	2.604	2.644	0.000	5.248	740.337	0.000	216.086	956.423	961.671	961.671
Clayton	13.155	10.151	14.655	0.000	37.961	851.932	7.768	177.798	1,037.498	1,075.459	1,062.304
Clinton	7.150	0.566	3.338	0.000	11.054	787.985	2.012	205.478	995.475	1,006.529	999.379
Crawford	10.010	2.549	182.488	3.136	198.183	891.014	1.917	133.496	1,026.427	1,224.610	1,214.600
Dallas	10.182	0.000	2.672	0.000	12.854	688.927	3.324	177.236	869.487	882.341	872.159
Davis	4.695	1.100	65.905	0.000	71.700	654.170	0.410	78.755	733.335	805.035	800.340
Decatur	13.484	0.118	81.331	0.000	94.933	519.414	54.799	98.625	672.838	767.771	754.287
Delaware	3.891	4.265	7.532	0.000	15.688	677.879	0.582	220.325	898.786	914.474	910.583
Des Moines	2.911	4.573	61.254	0.000	68.738	451.780	0.031	94.479	546.290	615.028	612.117
Dickinson	5.593	17.559	3.033	0.000	26.185	458.298	8.623	165.112	632.033	658.218	652.625
Dubuque	9.970	2.986	2.218	0.000	15.174	366.080	174.841	218.567	759.488	774.662	764.692
Emmet	0.864	3.033	1.852	0.000	5.749	458.876	0.000	180.265	639.141	644.890	644.026
Fayette	4.569	0.311	0.031	0.000	4.911	909.432	1.828	217.735	1,128.995	1,133.906	1,129.337
Floyd	2.267	1.001	1.021	0.000	4.289	711.940	4.245	158.297	874.482	878.771	876.504
Franklin	3.244	3.611	9.738	0.000	16.593	784.189	0.000	195.398	979.587	996.180	992.936
Fremont	4.002	1.896	129.421	0.000	135.319	445.981	108.589	60.161	614.731	750.050	746.048
Greene	4.663	1.750	3.167	0.000	9.580	744.801	0.000	207.054	951.855	961.435	956.772
Grundy	0.292	9.262	5.092	0.000	14.646	632.374	1.516	171.268	805.158	819.804	819.512
Guthrie	8.977	1.362	68.139	0.000	78.478	735.486	1.566	121.896	858.948	937.426	928.449
Hamilton	0.745	0.329	1.426	0.000	2.500	717.826	0.441	186.531	904.798	907.298	906.553

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)  
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COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	6.836	5.095	1.461	0.000	13.392	757.638	1.178	246.782	1,005.598	1,018.990	1,012.154
Hardin	2.356	0.590	4.619	0.000	7.565	786.894	3.903	176.415	967.212	974.777	972.421
Harrison	15.287	4.990	143.524	0.199	164.000	788.750	59.564	87.475	935.789	1,099.789	1,084.502
Henry	3.586	0.000	67.815	0.000	71.401	550.724	0.982	117.256	668.962	740.363	736.777
Howard	3.671	0.000	1.730	0.000	5.401	639.928	2.386	109.342	751.656	757.057	753.386
Humboldt	0.777	0.149	0.510	0.000	1.436	519.593	0.249	192.881	712.723	714.159	713.382
Ida	8.969	2.523	47.699	0.000	59.191	550.287	0.000	124.465	674.752	733.943	724.974
Iowa	9.000	1.347	75.349	0.000	85.696	703.215	3.680	146.211	853.106	938.802	929.802
Jackson	6.242	2.884	35.980	0.000	45.106	620.716	5.196	161.883	787.795	832.901	826.659
Jasper	7.111	1.243	47.938	0.000	56.292	964.929	17.710	188.230	1,170.869	1,227.161	1,220.050
Jefferson	0.000	0.267	98.691	0.000	98.958	515.200	9.008	126.161	650.369	749.327	749.327
Johnson	1.907	3.233	39.615	0.000	44.755	595.895	125.209	142.719	863.823	908.578	906.671
Jones	4.134	1.522	27.549	0.000	33.205	658.248	1.774	150.406	810.428	843.633	839.499
Keokuk	6.208	3.753	96.906	0.000	106.867	733.176	0.578	88.214	821.968	928.835	922.627
Kossuth	1.482	19.141	17.238	0.000	37.861	1,117.763	0.162	500.138	1,618.063	1,655.924	1,654.442
Lee	1.989	3.978	8.231	0.000	14.198	532.866	25.324	128.657	686.847	701.045	699.056
Linn	12.563	0.225	18.727	0.000	31.515	816.025	59.704	247.653	1,123.382	1,154.897	1,142.334
Louisa	2.331	0.622	38.121	0.000	41.074	414.386	5.855	109.655	529.896	570.970	568.639
Lucas	4.034	0.000	90.005	0.000	94.039	486.975	0.000	48.519	535.494	629.533	625.499
Lyon	1.654	2.349	1.348	0.000	5.351	754.974	0.491	243.382	998.847	1,004.198	1,002.544

**MILES OF RURAL SECONDARY ROADS FOR ALL SYSTEMS (AREA SERVICE AND FM)  
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COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison	7.952	8.534	38.340	0.000	54.826	750.090	3.574	103.681	857.345	912.171	904.219
Mahaska	12.402	5.086	31.105	0.000	48.593	815.689	0.000	104.641	920.330	968.923	956.521
Marion	5.509	0.845	44.486	0.087	50.927	662.088	31.700	116.737	810.525	861.452	855.943
Marshall	4.981	0.677	20.873	0.000	26.531	716.033	1.557	190.758	908.348	934.879	929.898
Mills	0.450	0.938	74.521	0.000	75.909	450.751	57.937	69.532	578.220	654.129	653.679
Mitchell	1.584	0.958	4.799	0.000	7.341	603.772	3.187	169.234	776.193	783.534	781.950
Monona	7.852	11.182	83.621	0.000	102.655	779.933	1.857	183.797	965.587	1,068.242	1,060.390
Monroe	22.555	0.320	44.008	0.000	66.883	496.275	4.027	53.731	554.033	620.916	598.361
Montgomery	0.577	0.342	108.123	0.000	109.042	503.679	1.706	104.390	609.775	718.817	718.240
Muscatine	2.279	3.694	15.476	0.000	21.449	414.363	43.103	129.030	586.496	607.945	605.666
O'Brien	3.444	0.136	60.561	0.000	64.141	736.766	0.000	216.321	953.087	1,017.228	1,013.784
Osceola	0.298	0.994	47.823	0.000	49.115	478.101	0.000	194.320	672.421	721.536	721.238
Page	3.027	2.517	156.270	0.000	161.814	550.590	108.578	98.114	757.282	919.096	916.069
Palo Alto	3.429	0.249	0.121	0.000	3.799	769.840	0.590	168.361	938.791	942.590	939.161
Plymouth	3.039	4.521	39.159	0.000	46.719	1,027.359	0.848	351.945	1,380.152	1,426.871	1,423.832
Pocahontas	0.293	3.523	15.224	0.000	19.040	794.698	0.000	185.114	979.812	998.852	998.559
Polk	10.732	0.715	0.783	0.000	12.230	245.838	92.486	410.784	749.108	761.338	750.606
Pottawattamie	16.646	0.864	85.345	0.000	102.855	1,143.861	35.407	156.515	1,335.783	1,438.638	1,421.992
Poweshiek	5.887	2.623	118.538	0.000	127.048	740.310	9.993	98.995	849.298	976.346	970.459
Ringgold	19.935	9.546	197.873	0.000	227.354	524.758	68.109	71.392	664.259	891.613	871.678

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COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719	0.000	24.880	800.192	0.983	194.734	995.909	1,020.789	1,019.129
Scott	1.528	5.954	6.569	0.000	14.051	355.100	6.589	169.017	530.706	544.757	543.229
Shelby	14.496	0.000	144.748	52.077	211.321	628.879	12.431	113.042	754.352	965.673	951.177
Sioux	11.394	4.759	44.644	0.000	60.797	1,038.690	0.093	266.526	1,305.309	1,366.106	1,354.712
Story	0.180	0.659	25.088	0.000	25.927	707.806	9.050	196.837	913.693	939.620	939.440
Tama	8.076	2.772	80.882	0.000	91.730	896.639	0.957	167.198	1,064.794	1,156.524	1,148.448
Taylor	5.670	5.407	156.731	0.000	167.808	645.828	8.745	84.368	738.941	906.749	901.079
Union	2.610	4.226	100.465	0.000	107.301	499.195	27.814	68.311	595.320	702.621	700.011
Van Buren	12.891	1.517	48.409	0.000	62.817	587.814	3.258	86.612	677.684	740.501	727.610
Wapello	8.569	0.000	36.769	0.000	45.338	525.621	7.505	122.786	655.912	701.250	692.681
Warren	1.598	0.000	75.901	0.000	77.499	653.721	3.253	142.770	799.744	877.243	875.645
Washington	14.318	1.185	87.270	0.000	102.773	671.664	7.146	125.491	804.301	907.074	892.756
Wayne	5.491	0.373	63.914	0.000	69.778	658.798	0.000	101.746	760.544	830.322	824.831
Webster	3.276	0.000	3.903	0.000	7.179	872.340	8.139	282.529	1,163.008	1,170.187	1,166.911
Winnebago	2.037	4.631	0.000	0.000	6.668	568.343	0.162	145.119	713.624	720.292	718.255
Winneshiek	9.515	1.421	2.698	0.000	13.634	818.216	16.963	203.580	1,038.759	1,052.393	1,042.878
Woodbury	13.446	2.084	66.023	0.000	81.553	952.601	0.064	303.362	1,256.027	1,337.580	1,324.134
Worth	6.792	0.709	1.492	0.000	8.993	475.498	3.170	205.658	684.326	693.319	686.527
Wright	0.603	1.516	0.609	0.000	2.728	795.432	0.482	167.002	962.916	965.644	965.041
TOTAL	539.172	258.884	4,442.284	56.512	5,296.852	67,092.049	1,357.974	15,929.075	84,379.098	89,675.950	89,136.778

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair					0.000	195.157	4.004	77.824	276.985	276.985	276.985
Adams					0.000	96.272		92.451	188.723	188.723	188.723
Allamakee					0.000	156.712	0.118	142.925	299.755	299.755	299.755
Appanoose			1.087		1.087	190.124	0.249	79.203	269.576	270.663	270.663
Audubon					0.000	184.723	2.321	85.345	272.389	272.389	272.389
Benton	0.500		3.449		3.949	174.115	3.993	175.598	353.706	357.655	357.155
Black Hawk	0.031				0.031	59.045	10.901	203.052	272.998	273.029	272.998
Boone					0.000	126.336	1.143	173.889	301.368	301.368	301.368
Bremer					0.000	63.229		127.167	190.396	190.396	190.396
Buchanan					0.000	176.424	0.876	153.843	331.143	331.143	331.143
Buena Vista					0.000	92.626	2.860	233.509	328.995	328.995	328.995
Butler					0.000	97.170		193.459	290.629	290.629	290.629
Calhoun					0.000	142.860	0.249	155.442	298.551	298.551	298.551
Carroll	0.485				0.485	187.696	0.398	162.487	350.581	351.066	350.581
Cass					0.000	159.934	4.027	93.355	257.316	257.316	257.316
Cedar			1.765		1.765	232.385	0.379	121.934	354.698	356.463	356.463
Cerro Gordo	0.697				0.697	104.349		213.444	317.793	318.490	317.793
Cherokee	1.585				1.585	108.779		195.708	304.487	306.072	304.487
Chickasaw			1.013		1.013	99.114		133.699	232.813	233.826	233.826
Clarke					0.000	192.971	4.406	49.218	246.595	246.595	246.595

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay					0.000	96.748		204.878	301.626	301.626	301.626
Clayton					0.000	231.103	1.934	169.311	402.348	402.348	402.348
Clinton					0.000	169.023	0.236	179.859	349.118	349.118	349.118
Crawford			1.457	2.126	3.583	244.648	0.131	130.128	374.907	378.490	378.490
Dallas					0.000	86.795	0.497	163.677	250.969	250.969	250.969
Davis					0.000	191.445	0.410	73.907	265.762	265.762	265.762
Decatur					0.000	171.200	40.487	92.328	304.015	304.015	304.015
Delaware					0.000	91.029		201.438	292.467	292.467	292.467
Des Moines	0.301				0.301	156.456		78.545	235.001	235.302	235.001
Dickinson					0.000	87.249	1.972	131.558	220.779	220.779	220.779
Dubuque					0.000	52.221	81.183	179.576	312.980	312.980	312.980
Emmet					0.000	11.033		167.269	178.302	178.302	178.302
Fayette					0.000	130.649	0.131	213.773	344.553	344.553	344.553
Floyd					0.000	108.938	1.784	136.418	247.140	247.140	247.140
Franklin					0.000	166.183		187.957	354.140	354.140	354.140
Fremont					0.000	95.954	105.248	52.061	253.263	253.263	253.263
Greene					0.000	109.353		206.141	315.494	315.494	315.494
Grundy					0.000	99.563	1.162	170.432	271.157	271.157	271.157
Guthrie					0.000	172.859	0.820	114.502	288.181	288.181	288.181
Hamilton					0.000	130.371		185.529	315.900	315.900	315.900

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	0.529				0.529	75.813	0.329	237.257	313.399	313.928	313.399
Hardin					0.000	194.687	1.752	172.781	369.220	369.220	369.220
Harrison			0.218	0.199	0.417	206.336	52.624	87.422	346.382	346.799	346.799
Henry	0.619				0.619	160.826	0.261	108.684	269.771	270.390	269.771
Howard					0.000	133.167	1.389	107.838	242.394	242.394	242.394
Humboldt					0.000	20.529		179.732	200.261	200.261	200.261
Ida					0.000	105.182		119.116	224.298	224.298	224.298
Iowa			0.392		0.392	217.952	3.136	134.002	355.090	355.482	355.482
Jackson	0.249		1.417		1.666	175.727	1.274	149.287	326.288	327.954	327.705
Jasper					0.000	225.885	2.803	176.457	405.145	405.145	405.145
Jefferson			1.896		1.896	160.245	7.715	113.309	281.269	283.165	283.165
Johnson					0.000	78.146	95.014	134.126	307.286	307.286	307.286
Jones			1.660		1.660	168.436		142.532	310.968	312.628	312.628
Keokuk	1.521				1.521	231.520		87.686	319.206	320.727	319.206
Kossuth					0.000	67.628		408.033	475.661	475.661	475.661
Lee					0.000	149.030	12.766	114.579	276.375	276.375	276.375
Linn	1.000				1.000	104.476	31.054	200.239	335.769	336.769	335.769
Louisa					0.000	132.802		106.498	239.300	239.300	239.300
Lucas					0.000	163.221		48.217	211.438	211.438	211.438
Lyon					0.000	89.106	0.491	231.225	320.822	320.822	320.822

**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison					0.000	214.528	3.574	103.613	321.715	321.715	321.715
Mahaska	0.045				0.045	203.362		94.650	298.012	298.057	298.012
Marion	0.068				0.068	192.647	9.305	100.489	302.441	302.509	302.441
Marshall	0.012				0.012	129.566	0.249	180.017	309.832	309.844	309.832
Mills					0.000	102.343	55.480	65.289	223.112	223.112	223.112
Mitchell					0.000	75.732		163.500	239.232	239.232	239.232
Monona					0.000	168.810	0.820	182.501	352.131	352.131	352.131
Monroe						228.492	3.667	43.524	275.683	275.683	275.683
Montgomery					0.000	121.081	1.575	101.366	224.022	224.022	224.022
Muscatine	1.210		0.361		1.571	79.954	22.641	115.372	217.967	219.538	218.328
O'Brien					0.000	100.099		212.398	312.497	312.497	312.497
Osceola					0.000	58.512		184.788	243.300	243.300	243.300
Page					0.000	120.548	105.111	94.961	320.620	320.620	320.620
Palo Alto					0.000	142.700	0.037	159.871	302.608	302.608	302.608
Plymouth					0.000	24.535		322.843	347.378	347.378	347.378
Pocahontas					0.000	122.241		177.277	299.518	299.518	299.518
Polk	1.562				1.562	51.740	34.592	255.517	341.849	343.411	341.849
Pottawattamie	1.001				1.001	384.131	16.258	141.844	542.233	543.234	542.233
Poweshiek			3.910		3.910	224.873	4.655	94.832	324.360	328.270	328.270
Ringgold					0.000	147.468	53.465	71.392	272.325	272.325	272.325



**MILES OF RURAL SECONDARY ROADS ON THE FARM-TO-MARKET SYSTEM  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac					0.000	135.510	0.522	191.899	327.931	327.931	327.931
Scott			0.870		0.870	69.127	1.791	132.657	203.575	204.445	204.445
Shelby			0.438	42.046	42.484	126.592	12.431	111.673	250.696	293.180	293.180
Sioux			0.951		0.951	164.686		259.326	424.012	424.963	424.963
Story					0.000	172.129	6.973	180.811	359.913	359.913	359.913
Tama			0.938		0.938	193.298	0.249	160.118	353.665	354.603	354.603
Taylor	0.797		4.716		5.513	230.475	8.254	81.498	320.227	325.740	324.943
Union					0.000	167.288	22.320	57.145	246.753	246.753	246.753
Van Buren	0.315				0.315	173.223	2.915	81.733	257.871	258.186	257.871
Wapello					0.000	154.798	6.828	112.510	274.136	274.136	274.136
Warren					0.000	186.334	1.418	124.937	312.689	312.689	312.689
Washington					0.000	223.382	6.266	121.714	351.362	351.362	351.362
Wayne			1.013		1.013	203.478		92.936	296.414	297.427	297.427
Webster					0.000	130.046		262.727	392.773	392.773	392.773
Winnebago	0.527				0.527	59.217		142.053	201.270	201.797	201.270
Winneshiek					0.000	139.694	9.906	196.062	345.662	345.662	345.662
Woodbury					0.000	84.292		283.138	367.430	367.430	367.430
Worth					0.000	60.890		174.592	235.482	235.482	235.482
Wright					0.000	64.947		164.602	229.549	229.549	229.549
TOTAL	13.054	0.000	27.551	44.371	84.976	13,936.323	873.829	14,760.034	29,570.186	29,655.162	29,642.108

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Adair	2.065	1.541	142.336		145.942	599.446	4.125	0.292	603.863	749.805	747.740
Adams	0.921		103.272		104.193	419.493	0.112	4.665	424.270	528.463	527.542
Allamakee	11.063	13.175	2.237		26.475	543.726	1.037	4.244	549.007	575.482	564.419
Appanoose	11.873	0.222	33.674		45.769	416.167	1.075	9.456	426.698	472.467	460.594
Audubon	1.811	0.640	36.174		38.625	448.213	2.358	1.392	451.963	490.588	488.777
Benton	3.182		90.769		93.951	751.039	1.889	6.240	759.168	853.119	849.937
Black Hawk	1.175	0.721	4.357		6.253	467.363	15.177	7.652	490.192	496.445	495.270
Boone	4.569		0.870	1.013	6.452	655.446	1.429	8.995	665.870	672.322	667.753
Bremer	0.746	2.343	1.889		4.978	509.152	1.580	6.099	516.831	521.809	521.063
Buchanan	0.865	1.022	23.751		25.638	567.591	0.292	6.997	574.880	600.518	599.653
Buena Vista	3.981	3.707	2.750		10.438	654.850	1.511	7.591	663.952	674.390	670.409
Butler	5.638		16.659		22.297	639.180	0.497	5.708	645.385	667.682	662.044
Calhoun		1.501	4.833		6.334	668.131	2.079	3.095	673.305	679.639	679.639
Carroll	2.473	2.399	12.557		17.429	612.264	0.068	8.565	620.897	638.326	635.853
Cass	1.533	1.373	138.434		141.340	493.494	4.093	3.975	501.562	642.902	641.369
Cedar	3.754	0.920	53.971		58.645	523.036	2.990	11.127	537.153	595.798	592.044
Cerro Gordo	2.648	4.230	5.128		12.006	594.464	3.643	17.671	615.778	627.784	625.136
Cherokee	4.264	1.412	21.814		27.490	660.371		6.441	666.812	694.302	690.038
Chickasaw	2.018	4.701	3.916		10.635	593.827	0.559	0.232	594.618	605.253	603.235
Clarke	3.473	0.062	69.683		73.218	340.701	0.628		341.329	414.547	411.074

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Clay		2.604	2.644		5.248	643.589		11.208	654.797	660.045	660.045
Clayton	13.155	10.151	14.655		37.961	620.829	5.834	8.487	635.150	673.111	659.956
Clinton	7.150	0.566	3.338		11.054	618.962	1.776	25.619	646.357	657.411	650.261
Crawford	10.010	2.549	181.031	1.010	194.600	646.366	1.786	3.368	651.520	846.120	836.110
Dallas	10.182		2.672		12.854	602.132	2.827	13.559	618.518	631.372	621.190
Davis	4.695	1.100	65.905		71.700	462.725		4.848	467.573	539.273	534.578
Decatur	13.484	0.118	81.331		94.933	348.214	14.312	6.297	368.823	463.756	450.272
Delaware	3.891	4.265	7.532		15.688	586.850	0.582	18.887	606.319	622.007	618.116
Des Moines	2.610	4.573	61.254		68.437	295.324	0.031	15.934	311.289	379.726	377.116
Dickinson	5.593	17.559	3.033		26.185	371.049	6.651	33.554	411.254	437.439	431.846
Dubuque	9.970	2.986	2.218		15.174	313.859	93.658	38.991	446.508	461.682	451.712
Emmet	0.864	3.033	1.852		5.749	447.843		12.996	460.839	466.588	465.724
Fayette	4.569	0.311	0.031		4.911	778.783	1.697	3.962	784.442	789.353	784.784
Floyd	2.267	1.001	1.021		4.289	603.002	2.461	21.879	627.342	631.631	629.364
Franklin	3.244	3.611	9.738		16.593	618.006		7.441	625.447	642.040	638.796
Fremont	4.002	1.896	129.421		135.319	350.027	3.341	8.100	361.468	496.787	492.785
Greene	4.663	1.750	3.167		9.580	635.448		0.913	636.361	645.941	641.278
Grundy	0.292	9.262	5.092		14.646	532.811	0.354	0.836	534.001	548.647	548.355
Guthrie	8.977	1.362	68.139		78.478	562.627	0.746	7.394	570.767	649.245	640.268
Hamilton	0.745	0.329	1.426		2.500	587.455	0.441	1.002	588.898	591.398	590.653

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)  
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COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Hancock	6.307	5.095	1.461		12.863	681.825	0.849	9.525	692.199	705.062	698.755
Hardin	2.356	0.590	4.619		7.565	592.207	2.151	3.634	597.992	605.557	603.201
Harrison	15.287	4.990	143.306		163.583	582.414	6.940	0.053	589.407	752.990	737.703
Henry	2.967		67.815		70.782	389.898	0.721	8.572	399.191	469.973	467.006
Howard	3.671		1.730		5.401	506.761	0.997	1.504	509.262	514.663	510.992
Humboldt	0.777	0.149	0.510		1.436	499.064	0.249	13.149	512.462	513.898	513.121
Ida	8.969	2.523	47.699		59.191	445.105		5.349	450.454	509.645	500.676
Iowa	9.000	1.347	74.957		85.304	485.263	0.544	12.209	498.016	583.320	574.320
Jackson	5.993	2.884	34.563		43.440	444.989	3.922	12.596	461.507	504.947	498.954
Jasper	7.111	1.243	47.938		56.292	739.044	14.907	11.773	765.724	822.016	814.905
Jefferson		0.267	96.795		97.062	354.955	1.293	12.852	369.100	466.162	466.162
Johnson	1.907	3.233	39.615		44.755	517.749	30.195	8.593	556.537	601.292	599.385
Jones	4.134	1.522	25.889		31.545	489.812	1.774	7.874	499.460	531.005	526.871
Keokuk	4.687	3.753	96.906		105.346	501.656	0.578	0.528	502.762	608.108	603.421
Kossuth	1.482	19.141	17.238		37.861	1,050.135	0.162	92.105	1,142.402	1,180.263	1,178.781
Lee	1.989	3.978	8.231		14.198	383.836	12.558	14.078	410.472	424.670	422.681
Linn	11.563	0.225	18.727		30.515	711.549	28.650	47.414	787.613	818.128	806.565
Louisa	2.331	0.622	38.121		41.074	281.584	5.855	3.157	290.596	331.670	329.339
Lucas	4.034		90.005		94.039	323.754		0.302	324.056	418.095	414.061
Lyon	1.654	2.349	1.348		5.351	665.868		12.157	678.025	683.376	681.722

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Madison	7.952	8.534	38.340		54.826	535.562		0.068	535.630	590.456	582.504
Mahaska	12.357	5.086	31.105		48.548	612.327		9.991	622.318	670.866	658.509
Marion	5.441	0.845	44.486	0.087	50.859	469.441	22.395	16.248	508.084	558.943	553.502
Marshall	4.969	0.677	20.873		26.519	586.467	1.308	10.741	598.516	625.035	620.066
Mills	0.450	0.938	74.521		75.909	348.408	2.457	4.243	355.108	431.017	430.567
Mitchell	1.584	0.958	4.799		7.341	528.040	3.187	5.734	536.961	544.302	542.718
Monona	7.852	11.182	83.621		102.655	611.123	1.037	1.296	613.456	716.111	708.259
Monroe	22.555	0.320	44.008		66.883	267.783	0.360	10.207	278.350	345.233	322.678
Montgomery	0.577	0.342	108.123		109.042	382.598	0.131	3.024	385.753	494.795	494.218
Muscatine	1.069	3.694	15.115		19.878	334.409	20.462	13.658	368.529	388.407	387.338
O'Brien	3.444	0.136	60.561		64.141	636.667		3.923	640.590	704.731	701.287
Osceola	0.298	0.994	47.823		49.115	419.589		9.532	429.121	478.236	477.938
Page	3.027	2.517	156.270		161.814	430.042	3.467	3.153	436.662	598.476	595.449
Palo Alto	3.429	0.249	0.121		3.799	627.140	0.553	8.490	636.183	639.982	636.553
Plymouth	3.039	4.521	39.159		46.719	1,002.824	0.848	29.102	1,032.774	1,079.493	1,076.454
Pocahontas	0.293	3.523	15.224		19.040	672.457		7.837	680.294	699.334	699.041
Polk	9.170	0.715	0.783		10.668	194.098	57.894	155.267	407.259	417.927	408.757
Pottawattamie	15.645	0.864	85.345		101.854	759.730	19.149	14.671	793.550	895.404	879.759
Poweshiek	5.887	2.623	114.628		123.138	515.437	5.338	4.163	524.938	648.076	642.189
Ringgold	19.935	9.546	197.873		227.354	377.290	14.644		391.934	619.288	599.353

**MILES OF RURAL SECONDARY ROADS ON THE AREA SERVICE SYSTEM (NON- FM)  
CLASSIFIED BY SURFACE TYPE**

COUNTY	EARTH ROADS					SURFACED ROADS				TOTAL RURAL ROADS FOR SYSTEM	TOTAL OPEN ROADS
	LEGAL NOT OPEN TO TRAFFIC	UNIMPROVED EARTH	GRADED AND DRAINED	SOIL SURFACED	TOTAL EARTH	GRAVEL OR STONE	BITUMINOUS	PAVED	TOTAL SURFACED		
Sac	1.660	0.501	22.719		24.880	664.682	0.461	2.835	667.978	692.858	691.198
Scott	1.528	5.954	5.699		13.181	285.973	4.798	36.360	327.131	340.312	338.784
Shelby	14.496		144.310	10.031	168.837	502.287		1.369	503.656	672.493	657.997
Sloux	11.394	4.759	43.693		59.846	874.004	0.093	7.200	881.297	941.143	929.749
Story	0.180	0.659	25.088		25.927	535.677	2.077	16.026	553.780	579.707	579.527
Tama	8.076	2.772	79.944		90.792	703.341	0.708	7.080	711.129	801.921	793.845
Taylor	4.873	5.407	152.015		162.295	415.353	0.491	2.870	418.714	581.009	576.136
Union	2.610	4.226	100.465		107.301	331.907	5.494	11.166	348.567	455.868	453.258
Van Buren	12.576	1.517	48.409		62.502	414.591	0.343	4.879	419.813	482.315	469.739
Wapello	8.569		36.769		45.338	370.823	0.677	10.276	381.776	427.114	418.545
Warren	1.598		75.901		77.499	467.387	1.835	17.833	487.055	564.554	562.956
Washington	14.318	1.185	87.270		102.773	448.282	0.880	3.777	452.939	555.712	541.394
Wayne	5.491	0.373	62.901		68.765	455.320		8.810	464.130	532.895	527.404
Webster	3.276		3.903		7.179	742.294	8.139	19.802	770.235	777.414	774.138
Winnebago	1.510	4.631			6.141	509.126	0.162	3.066	512.354	518.495	516.985
Winneshiek	9.515	1.421	2.698		13.634	678.522	7.057	7.518	693.097	706.731	697.216
Woodbury	13.446	2.084	66.023		81.553	868.309	0.064	20.224	888.597	970.150	956.704
Worth	6.792	0.709	1.492		8.993	414.608	3.170	31.066	448.844	457.837	451.045
Wright	0.603	1.516	0.609		2.728	730.485	0.482	2.400	733.367	736.095	735.492
TOTAL	526.118	258.884	4,414.733	12.141	5,211.876	53,155.726	484.145	1,169.041	54,808.912	60,020.788	59,494.670

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM**

**(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	1,026.790	880.848	145.942	85.79
Adams	717.186	612.993	104.193	85.47
Allamakee	875.237	848.762	26.475	96.98
Appanoose	743.130	696.274	46.856	93.69
Audubon	762.977	724.352	38.625	94.94
Benton	1,210.774	1,112.874	97.900	91.91
Black Hawk	769.474	763.190	6.284	99.18
Boone	973.690	967.238	6.452	99.34
Bremer	712.205	707.227	4.978	99.30
Buchanan	931.661	906.023	25.638	97.25
Buena Vista	1,003.385	992.947	10.438	98.96
Butler	958.311	936.014	22.297	97.67
Calhoun	978.190	971.856	6.334	99.35
Carroll	989.392	971.478	17.914	98.19
Cass	900.218	758.878	141.340	84.30
Cedar	952.261	891.851	60.410	93.66
Cerro Gordo	946.274	933.571	12.703	98.66
Cherokee	1,000.374	971.299	29.075	97.09
Chickasaw	839.079	827.431	11.648	98.61
Clarke	661.142	587.924	73.218	88.93

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM**  
**(INCLUDES LEGAL-NOT-OPEN)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	961.671	956.423	5.248	99.45
Clayton	1,075.459	1,037.498	37.961	96.47
Clinton	1,006.529	995.475	11.054	98.90
Crawford	1,224.610	1,026.427	198.183	83.82
Dallas	882.341	869.487	12.854	98.54
Davis	805.035	733.335	71.700	91.09
Decatur	767.771	672.838	94.933	87.64
Delaware	914.474	898.786	15.688	98.28
Des Moines	615.028	546.290	68.738	88.82
Dickinson	658.218	632.033	26.185	96.02
Dubuque	774.662	759.488	15.174	98.04
Emmet	644.890	639.141	5.749	99.11
Fayette	1,133.906	1,128.995	4.911	99.57
Floyd	878.771	874.482	4.289	99.51
Franklin	996.180	979.587	16.593	98.33
Fremont	750.050	614.731	135.319	81.96
Greene	961.435	951.855	9.580	99.00
Grundy	819.804	805.158	14.646	98.21
Guthrie	937.426	858.948	78.478	91.63
Hamilton	907.298	904.798	2.500	99.72



**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM**  
**(INCLUDES LEGAL-NOT-OPEN)**  
 Surfaced Indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	1,018.990	1,005.598	13.392	98.69
Hardin	974.777	967.212	7.565	99.22
Harrison	1,099.789	935.789	164.000	85.09
Henry	740.363	668.962	71.401	90.36
Howard	757.057	751.656	5.401	99.29
Humboldt	714.159	712.723	1.436	99.80
Ida	733.943	674.752	59.191	91.94
Iowa	938.802	853.106	85.696	90.87
Jackson	832.901	787.795	45.106	94.58
Jasper	1,227.161	1,170.869	56.292	95.41
Jefferson	749.327	650.369	98.958	86.79
Johnson	908.578	863.823	44.755	95.07
Jones	843.633	810.428	33.205	96.06
Keokuk	928.835	821.968	106.867	88.49
Kossuth	1,655.924	1,618.063	37.861	97.71
Lee	701.045	686.847	14.198	97.97
Linn	1,154.897	1,123.382	31.515	97.27
Louisa	570.970	529.896	41.074	92.81
Lucas	629.533	535.494	94.039	85.06
Lyon	1,004.198	998.847	5.351	99.47

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM**

**(INCLUDES LEGAL-NOT-OPEN)**

Surfaced Indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	912.171	857.345	54.826	93.99
Mahaska	968.923	920.330	48.593	94.98
Marion	861.452	810.525	50.927	94.09
Marshall	934.879	908.348	26.531	97.16
Mills	654.129	578.220	75.909	88.40
Mitchell	783.534	776.193	7.341	99.06
Monona	1,068.242	965.587	102.655	90.39
Monroe	620.916	554.033	66.883	89.23
Montgomery	718.817	609.775	109.042	84.83
Muscatine	607.945	586.496	21.449	96.47
O'Brien	1,017.228	953.087	64.141	93.69
Osceola	721.536	672.421	49.115	93.19
Page	919.096	757.282	161.814	82.39
Palo Alto	942.590	938.791	3.799	99.60
Plymouth	1,426.871	1,380.152	46.719	96.73
Pocahontas	998.852	979.812	19.040	98.09
Polk	761.338	749.108	12.230	98.39
Pottawattamie	1,438.638	1,335.783	102.855	92.85
Poweshiek	976.346	849.298	127.048	86.99
Ringgold	891.613	664.259	227.354	74.50

**PERCENT SURFACED FOR ALL SYSTEMS ON THE SECONDARY ROAD SYSTEM**

**(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	TOTAL SECONDARY			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	1,020.789	995.909	24.880	97.56
Scott	544.757	530.706	14.051	97.42
Shelby	965.673	754.352	211.321	78.12
Sioux	1,366.106	1,305.309	60.797	95.55
Story	939.620	913.693	25.927	97.24
Tama	1,156.524	1,064.794	91.730	92.07
Taylor	906.749	738.941	167.808	81.49
Union	702.621	595.320	107.301	84.73
Van Buren	740.501	677.684	62.817	91.52
Wapello	701.250	655.912	45.338	93.53
Warren	877.243	799.744	77.499	91.17
Washington	907.074	804.301	102.773	88.67
Wayne	830.322	760.544	69.778	91.60
Webster	1,170.187	1,163.008	7.179	99.39
Winnebago	720.292	713.624	6.668	99.07
Winneshiek	1,052.393	1,038.759	13.634	98.70
Woodbury	1,337.580	1,256.027	81.553	93.90
Worth	693.319	684.326	8.993	98.70
Wright	965.644	962.916	2.728	99.72
<b>TOTAL</b>	<b>89,675.950</b>	<b>84,379.098</b>	<b>5,296.852</b>	<b>94.09</b>

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	276.985	276.985	0.000	100.00
Adams	188.723	188.723	0.000	100.00
Allamakee	299.755	299.755	0.000	100.00
Appanoose	270.663	269.576	1.087	99.60
Audubon	272.389	272.389	0.000	100.00
Benton	357.655	353.706	3.949	98.90
Black Hawk	273.029	272.998	0.031	99.99
Boone	301.368	301.368	0.000	100.00
Bremer	190.396	190.396	0.000	100.00
Buchanan	331.143	331.143	0.000	100.00
Buena Vista	328.995	328.995	0.000	100.00
Butler	290.629	290.629	0.000	100.00
Calhoun	298.551	298.551	0.000	100.00
Carroll	351.066	350.581	0.485	99.86
Cass	257.316	257.316	0.000	100.00
Cedar	356.463	354.698	1.765	99.50
Cerro Gordo	318.490	317.793	0.697	99.78
Cherokee	306.072	304.487	1.585	99.48
Chickasaw	233.826	232.813	1.013	99.57
Clarke	246.595	246.595	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	301.626	301.626	0.000	100.00
Clayton	402.348	402.348	0.000	100.00
Clinton	349.118	349.118	0.000	100.00
Crawford	378.490	374.907	3.583	99.05
Dallas	250.969	250.969	0.000	100.00
Davis	265.762	265.762	0.000	100.00
Decatur	304.015	304.015	0.000	100.00
Delaware	292.467	292.467	0.000	100.00
Des Moines	235.302	235.001	0.301	99.87
Dickinson	220.779	220.779	0.000	100.00
Dubuque	312.980	312.980	0.000	100.00
Emmet	178.302	178.302	0.000	100.00
Fayette	344.553	344.553	0.000	100.00
Floyd	247.140	247.140	0.000	100.00
Franklin	354.140	354.140	0.000	100.00
Fremont	253.263	253.263	0.000	100.00
Greene	315.494	315.494	0.000	100.00
Grundy	271.157	271.157	0.000	100.00
Guthrie	288.181	288.181	0.000	100.00
Hamilton	315.900	315.900	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	313.928	313.399	0.529	99.83
Hardin	369.220	369.220	0.000	100.00
Harrison	346.799	346.382	0.417	99.88
Henry	270.390	269.771	0.619	99.77
Howard	242.394	242.394	0.000	100.00
Humboldt	200.261	200.261	0.000	100.00
Ida	224.298	224.298	0.000	100.00
Iowa	355.482	355.090	0.392	99.89
Jackson	327.954	326.288	1.666	99.49
Jasper	405.145	405.145	0.000	100.00
Jefferson	283.165	281.269	1.896	99.33
Johnson	307.286	307.286	0.000	100.00
Jones	312.628	310.968	1.660	99.47
Keokuk	320.727	319.206	1.521	99.53
Kossuth	475.661	475.661	0.000	100.00
Lee	276.375	276.375	0.000	100.00
Linn	336.769	335.769	1.000	99.70
Louisa	239.300	239.300	0.000	100.00
Lucas	211.438	211.438	0.000	100.00
Lyon	320.822	320.822	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM**  
**(INCLUDES LEGAL-NOT-OPEN)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	321.715	321.715	0.000	100.00
Mahaska	298.057	298.012	0.045	99.98
Marion	302.509	302.441	0.068	99.98
Marshall	309.844	309.832	0.012	100.00
Mills	223.112	223.112	0.000	100.00
Mitchell	239.232	239.232	0.000	100.00
Monona	352.131	352.131	0.000	100.00
Monroe	275.683	275.683	0.000	100.00
Montgomery	224.022	224.022	0.000	100.00
Muscatine	219.538	217.967	1.571	99.28
O'Brien	312.497	312.497	0.000	100.00
Osceola	243.300	243.300	0.000	100.00
Page	320.620	320.620	0.000	100.00
Palo Alto	302.608	302.608	0.000	100.00
Plymouth	347.378	347.378	0.000	100.00
Pocahontas	299.518	299.518	0.000	100.00
Polk	343.411	341.849	1.562	99.55
Pottawattamie	543.234	542.233	1.001	99.82
Poweshiek	328.270	324.360	3.910	98.81
Ringgold	272.325	272.325	0.000	100.00

**PERCENT SURFACED FOR THE FARM-TO-MARKET SYSTEM ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	327.931	327.931	0.000	100.00
Scott	204.445	203.575	0.870	99.57
Shelby	293.180	250.696	42.484	85.51
Sioux	424.963	424.012	0.951	99.78
Story	359.913	359.913	0.000	100.00
Tama	354.603	353.665	0.938	99.74
Taylor	325.740	320.227	5.513	98.31
Union	246.753	246.753	0.000	100.00
Van Buren	258.186	257.871	0.315	99.88
Wapello	274.136	274.136	0.000	100.00
Warren	312.689	312.689	0.000	100.00
Washington	351.362	351.362	0.000	100.00
Wayne	297.427	296.414	1.013	99.66
Webster	392.773	392.773	0.000	100.00
Winnebago	201.797	201.270	0.527	99.74
Winneshiek	345.662	345.662	0.000	100.00
Woodbury	367.430	367.430	0.000	100.00
Worth	235.482	235.482	0.000	100.00
Wright	229.549	229.549	0.000	100.00
<b>TOTAL</b>	<b>29,655.162</b>	<b>29,570.186</b>	<b>84.976</b>	<b>99.71</b>



**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Adair	749.805	603.863	145.942	80.54
Adams	528.463	424.270	104.193	80.28
Allamakee	575.482	549.007	26.475	95.40
Appanoose	472.467	426.698	45.769	90.31
Audubon	490.588	451.963	38.625	92.13
Benton	853.119	759.168	93.951	88.99
Black Hawk	496.445	490.192	6.253	98.74
Boone	672.322	665.870	6.452	99.04
Bremer	521.809	516.831	4.978	99.05
Buchanan	600.518	574.880	25.638	95.73
Buena Vista	674.390	663.952	10.438	98.45
Butler	667.682	645.385	22.297	96.66
Calhoun	679.639	673.305	6.334	99.07
Carroll	638.326	620.897	17.429	97.27
Cass	642.902	501.562	141.340	78.02
Cedar	595.798	537.153	58.645	90.16
Cerro Gordo	627.784	615.778	12.006	98.09
Cherokee	694.302	666.812	27.490	96.04
Chickasaw	605.253	594.618	10.635	98.24
Clarke	414.547	341.329	73.218	82.34

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Clay	660.045	654.797	5.248	99.20
Clayton	673.111	635.150	37.961	94.36
Clinton	657.411	646.357	11.054	98.32
Crawford	846.120	651.520	194.600	77.00
Dallas	631.372	618.518	12.854	97.96
Davis	539.273	467.573	71.700	86.70
Decatur	463.756	368.823	94.933	79.53
Delaware	622.007	606.319	15.688	97.48
Des Moines	379.726	311.289	68.437	81.98
Dickinson	437.439	411.254	26.185	94.01
Dubuque	461.682	446.508	15.174	96.71
Emmet	466.588	460.839	5.749	98.77
Fayette	789.353	784.442	4.911	99.38
Floyd	631.631	627.342	4.289	99.32
Franklin	642.040	625.447	16.593	97.42
Fremont	496.787	361.468	135.319	72.76
Greene	645.941	636.361	9.580	98.52
Grundy	548.647	534.001	14.646	97.33
Guthrie	649.245	570.767	78.478	87.91
Hamilton	591.398	588.898	2.500	99.58

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM**  
**(INCLUDES LEGAL-NOT-OPEN)**  
 Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Hancock	705.062	692.199	12.863	98.18
Hardin	605.557	597.992	7.565	98.75
Harrison	752.990	589.407	163.583	78.28
Henry	469.973	399.191	70.782	84.94
Howard	514.663	509.262	5.401	98.95
Humboldt	513.898	512.462	1.436	99.72
Ida	509.645	450.454	59.191	88.39
Iowa	583.320	498.016	85.304	85.38
Jackson	504.947	461.507	43.440	91.40
Jasper	822.016	765.724	56.292	93.15
Jefferson	466.162	369.100	97.062	79.18
Johnson	601.292	556.537	44.755	92.56
Jones	531.005	499.460	31.545	94.06
Keokuk	608.108	502.762	105.346	82.68
Kossuth	1,180.263	1,142.402	37.861	96.79
Lee	424.670	410.472	14.198	96.66
Linn	818.128	787.613	30.515	96.27
Louisa	331.670	290.596	41.074	87.62
Lucas	418.095	324.056	94.039	77.51
Lyon	683.376	678.025	5.351	99.22

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Madison	590.456	535.630	54.826	90.71
Mahaska	670.866	622.318	48.548	92.76
Marion	558.943	508.084	50.859	90.90
Marshall	625.035	598.516	26.519	95.76
Mills	431.017	355.108	75.909	82.39
Mitchell	544.302	536.961	7.341	98.65
Monona	716.111	613.456	102.655	85.66
Monroe	345.233	278.350	66.883	80.63
Montgomery	494.795	385.753	109.042	77.96
Muscatine	388.407	368.529	19.878	94.88
O'Brien	704.731	640.590	64.141	90.90
Osceola	478.236	429.121	49.115	89.73
Page	598.476	436.662	161.814	72.96
Palo Alto	639.982	636.183	3.799	99.41
Plymouth	1,079.493	1,032.774	46.719	95.67
Pocahontas	699.334	680.294	19.040	97.28
Polk	417.927	407.259	10.668	97.45
Pottawattamie	895.404	793.550	101.854	88.62
Poweshiek	648.076	524.938	123.138	81.00
Ringgold	619.288	391.934	227.354	63.29

**PERCENT SURFACED FOR AREA SERVICE SYSTEMS (NON-FM) ON THE SECONDARY ROAD SYSTEM  
(INCLUDES LEGAL-NOT-OPEN)**

Surfaced Indicates Roads that are gravel or paved

COUNTY	NON-FARM-TO-MARKET			
	TOTAL MILES	SURFACED	NOT SURFACED	PERCENT SURFACED
Sac	692.858	667.978	24.880	96.41
Scott	340.312	327.131	13.181	96.13
Shelby	672.493	503.656	168.837	74.89
Sioux	941.143	881.297	59.846	93.64
Story	579.707	553.780	25.927	95.53
Tama	801.921	711.129	90.792	88.68
Taylor	581.009	418.714	162.295	72.07
Union	455.868	348.567	107.301	76.46
Van Buren	482.315	419.813	62.502	87.04
Wapello	427.114	381.776	45.338	89.39
Warren	564.554	487.055	77.499	86.27
Washington	555.712	452.939	102.773	81.51
Wayne	532.895	464.130	68.765	87.10
Webster	777.414	770.235	7.179	99.08
Winnebago	518.495	512.354	6.141	98.82
Winneshiek	706.731	693.097	13.634	98.07
Woodbury	970.150	888.597	81.553	91.59
Worth	457.837	448.844	8.993	98.04
Wright	736.095	733.367	2.728	99.63
<b>TOTAL</b>	<b>60,020.788</b>	<b>54,808.912</b>	<b>5,211.876</b>	<b>91.32</b>